

Serial No. 09/588,788  
Atry Docket 67,200-262

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### IN THE CLAIMS

1. (presently amended) A method for fabricating an inductor structure comprising:
  - providing a substrate;
  - forming over the substrate a planar spiral conductor layer comprising a single spiral to form a planar spiral inductor ~~comprising the single spiral~~, wherein a successive series of ~~spirals-loops~~ within the planar spiral conductor layer ~~comprising the single spiral~~ is formed with a ~~continuous progressive and discontinuous~~ variation in at least one of:
    - a series of linewidths of the successive series of spiralsloops; and
    - a series of spacings separating the successive series of spirals loops.
2. - 3. (canceled)
4. (presently amended) A method for fabricating an inductor structure comprising:
  - providing a substrate;
  - forming over the substrate a planar spiral conductor layer to form a planar spiral inductor, wherein a successive series of ~~spirals-loops~~ within the planar spiral conductor layer is formed with a continuous progressive and discontinuous variation in at least one of:
    - a series of linewidths of the successive series of spiralsloops; and
    - a series of spacings separating the successive series of ~~spirals-loops~~, wherein the successive series of ~~spirals-loops~~ is formed in a shape selected from the group consisting of a triangle, a square, a rectangle, a higher order polygon, a uniform ellipse and a circle.
5. (original) The method of claim 1 wherein the planar spiral conductor layer is formed of a conductor material selected from the group consisting of non-magnetic metal, non-

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magnetic metal alloy, magnetic metal, magnetic metal alloy, doped polysilicon and polycide conductor materials, and laminates thereof.

6. (presently amended) The method of claim 1 wherein the variation in the series of linewidths of the successive series of ~~spirals~~loops is an increasing progression of linewidth from a first ~~spiral~~loop which defines the center of the planar spiral inductor having a comparatively narrow linewidth to a final ~~spiral~~loop which defines the perimeter of the planar spiral inductor having a comparatively wide linewidth.

7. (original) The method of claim 6 wherein the comparatively narrow linewidth is from about 7 to about 10 microns and the comparatively wide line width is from about 17 to about 21 microns.

8. (presently amended) The method of claim 1 wherein the successive ~~series~~loops of spirals comprises from about 1 to about 8 ~~loops~~spirals.

9. - 15. (canceled)

16. (~~presently~~ amended) The method of claim 1 wherein the continuous progressive and discontinuous variation is a progressively increasing or decreasing discontinuous variation.